

SEQUENCE LISTING

<110> XU, Ming-Qun
EVANS, Thomas C.

<120> Intein Mediated Peptide Ligation

<130> NEB-150PUS

<140> 09/786,009

<141> 1999-09-30

<150> 00/102,413

<151> 1999-09-30

<150> ECT/US99/22776

<151> 1999-09-30

<160> 2

<170> PatentIn Ver. 2.0

<210> 1

<211> 43

<212> DNA

<213> Artificial Sequence

<270>

<213> Description of Artificial Sequence: the modified
C-terminal splice junction of the intein from the
gyrA gene of Mycobacterium xenopi

<400> 1

gggttgcag ccaagctact ggctcaccg gttgatagct gca

43

<210> 2

<211> 19

<212> DNA

<213> Artificial Sequence

<270>

<213> Description of Artificial Sequence: the
complementary strand of the C-terminal splice
junction of the modified intein from the gyrA
gene of Mycobacterium xenopi

<400> 2

ggtatcaatc ggtaggata ctatcttctt tctcttca

<210> 3

<211> 68

<212> DNA

<213> Artificial Sequence

4220

4223 Description of Artificial Sequence: the polylinker
sequence inserted upstream of the modified intein
from the gyrA gene of Mycobacterium xenopi

4400 3

tcgactctag acatatggcc atgggtggcg gcgcctcga ggcctcttc tgcacacgg 60
cagatgca 68

4210 4

4211 69

4212 DNA

4213 Artificial Sequence

4214

4215 At position 41, "H" = A or C or T.

4220

4223 Description of Artificial Sequence: the
complementary strand of the polylinker inserted
upstream of the modified intein from the gyrA
gene of Mycobacterium xenopi

4400 4

ctcgcctcga ggcctcttc tgcacacgg cagatgca 60
tcgactctag 68

4210 5

4211 6109

4212 DNA

4213 Artificial Sequence

4214

4223 Description of Artificial Sequence: pTXB1 plasmid
sequence containing the modified intein from the
gyrA gene of Mycobacterium xenopi

4400 5

tcgactctag ggcctcttc tgcacacgg cagatgca 60
tcgactctag tcaaatatgt atcgcctcat gagacaataa ccccgataaa tgcctcaata 120
tcgactctag tcaaatatgt atcgcctcat gagacaataa ccccgataaa tgcctcaata 180
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 240
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 300
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 360
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 420
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 480
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 540
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 600
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 660
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 720
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 780
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 840
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 900
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 960
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 1020
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 1080
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 1140
tcgactctag tgcctcaata tgcctcaata tgcctcaata tgcctcaata tgcctcaata 1200

[illegible]

cyttaactggt	ttcacattca	ccacccctgaa	ttgaactctct	tcggggggcct	atcatgcat	4500
acccggaaaag	gttttgccgc	atccgatggt	gtcccgagtc	tcgagctct	cccttatgag	4500
actccctgcat	taggaagcag	ccagtagta	ggttgaggcc	gttgagcann	gcggccgcaa	4500
ggaatgggtgc	atcccgccct	ctcgctctca	agtaattatt	cccaattcca	ggcatcaaat	4500
aaaaacgaaa	gctcagtcga	aagactgggc	ctttcgcttt	atctgctggt	tgtcggtgaa	4500
cgctctctct	agtaggacaa	atcccgccgc	agcgattctg	aacgttgcca	agcaacggcc	4500
cgaggggtgc	cgggcaggac	gcggcccata	aactggcagg	aattaatccc	aggcatcaaa	4500
taaaaacgaaa	ggctcagtcg	aaagactggg	cccttcgctt	tatctgctgt	ctgtcggtga	4500
acgtctctct	gagtaggaca	aatcccgccg	gagcgattct	gaacgttgcc	aagcaacggc	4500
ccggaggggtg	gggggcaggc	cgcccgccat	aaaactggcc	gaattaatcc	caggcatcaa	5040
ataaaaacgaa	aggctcagtc	gaaagactgg	gccttcgctt	ctatctgctg	ctgtcggtg	5100
aicgtctctc	tgagtaggac	aaatcccgcc	ggagcggtat	tgaaactgga	gaagcaacgg	5100
ccggaggggtg	gggggcaggc	agcccgccca	taaaactgca	ggaattaatc	ccaggcatca	5100
aataaaaacga	aaggctcagt	cgaaagactg	ggccttcgct	cttatctgct	gtctgctggt	5100
gaaactctct	ctgagtagga	caaatcccgcc	gggagcggtat	ctgaactgga	ogaagcaacg	5100
gcggaggggtg	tggggcaggc	gaccccgccg	ataaaactgca	aggaattggg	gacgggaatt	5100
aattcccggt	ttaaaacggg	gatctcgatc	cccgcaaatc	aatacgaact	actatagggt	5100
aattgtgagc	ggataacaa	tcggctctag	aaataattct	gcttaacttc	aagaaggaga	5100
tatacatatg	gctagctcgc	gagtcgaagg	cgcccgcgaa	tccttcgagg	gctcttctct	5100
catacagggga	gatgcactag	ctgcctctac	cgagggcgag	tcggtaacga	tcgcggacat	5100
cttgccgggtg	ggcgggccca	acagtgacaa	cgccatcgac	ctgaaagtcc	ttgacgggca	5100
tggaatctcc	gtgctcgccg	acggctggtt	ccactccggc	gagcatccgg	tgtacacggc	5100
ggttaggtgc	gaaggtctgc	ctgtgacggg	caacgggaac	caacggctgt	tgtgtctggt	5100
cgactctcgc	gggggtcgga	ccctgctggt	gaagctgctc	gacgaaatca	agccggggga	5100
taacggggtg	attcaacgca	ggcatctcag	ggtgagctgc	gtagggtctc	cccgggggaa	5100
acccgaattc	ggggcccaaa	ctctctcagc	ggggtctcgc	ggactgggtg	gtctctggga	5100
agcacaccac	cgagaccggg	acggcccaagc	tatcgccgac	gagctgacgg	acgggggggt	5100
ctactacggc	aaagtccgca	gtgtcaccga	cgccgggggt	cagccgggtg	atagcctctg	5100
tgctgacacg	gcagaccacg	cgcttatcac	gaacgggttc	gtcagccacg	ctactgggtc	5100
caacgggtctg	aactcagggc	tcacgacaaa	tcctgggtga	tcggcttgga	aggtcaacac	5100
agcttatact	gggggacaa	tggtcaccata	taacgggcaag	acgtataaat	gtttgcagcc	5100
ccacacctcc	ttggcaggat	gggaaacata	caacgttctc	gccttgctggc	agcttcaatg	5100
actgcaggaa	ggggatccgg	ctgctaacaa	agccggaaag	gaagctgagt	tggctgctgc	5100
caacgtctgag	caataactag	cataacccct	gggggctctc	aaacgggtct	tgaggggttt	5100
ttgctgaaa	ggagggaacta	tatccggat				5100

(210) 6

(211) 30

(212) PRT

(213) Artificial Sequence

(220)

(223) Description of Artificial Sequence: synthetic peptide

411

Lys Ala Tyr Lys Thr Thr Gln Ala Asn Lys His Ile Ile Val Ala Lys

Glu Gly Asn Pro Tyr Val Pro Val His Ile Asp Ala Ser Val

20

25

30

4210: 7
4211: 13
4212: FRT
4213: Artificial Sequence

4220:
4223: Description of Artificial Sequence: the amino acid
sequence deduced from the polylinker region of
pTXB1

4400: 7
Met Ala Met Gly Gly Gly Arg Leu Glu Gly Ser Ser Cys
1 5 10

4210: 8
4211: 42
4212: INA
4213: Artificial Sequence

4220:
4223: Description of Artificial Sequence: polylinker
region upstream of the modified intein from the
gyrA gene of Mycobacterium xenopi in pTXB1

4401: 8
ataagggaca tgggtgggga cggcctcgag ggcctcttct ga

42

4210: 9
4211: 7
4212: FRT
4213: Artificial Sequence

4220:
4223: Description of Artificial Sequence: synthetic
peptide

4402: 9
Cys Asp Pro Glu Lys Asp Ser
1 5